

Application story



Gas Sweetening - Amine Injection (1)

Location	India (Installation: June 2006)	Hydra-Cell model	G04XDSJHFEHG / G15XDSGHFEHH
Type of application	Amine Injection	Flow rate	G04 Up to 11.2 l/min (3 gpm) / G15 Up to 50 l/min (15 gpm)
Liquid	Amine	Pressure	G04 Up to 172 bar (2500 psi) / G15 up to 172 bar (2500 psi)
Application details	This leading oil and gas development company uses Hydra-Cell G04 and G15 models to pump lean amine solution in a gas sweetening process. Hydra-Cell has replaced single-diaphragm metering pumps on this application. The amine is sprayed down into the up-flowing gas stream from the top of an absorber vessel. This process involves stripping acid gases, hydrogen sulphide and carbon dioxide, from the gas stream. The amine solution, now rich in acid gases then goes through a boiling /regeneration process enabling it to be re-used in the absorber. The pump is handling amine at high pressures, and the single-diaphragm pumps were having many maintenance problems - diaphragms had to be replaced frequently. Hydra-Cell pumps handle the severe conditions well, and field success led to repeat orders. The compact design of the Hydra-Cell also offered favourable comparison with the massive construction of the single-diaphragm units.		
Advantages of Hydra-Cell pump on this application	Multiple diaphragms in single-head. Low maintenance. Compact design.		

www.hydra-cell.co.uk

Wanner Engineering -
World Headquarters & Manufacturing
Minneapolis USA
t: (612) 332-5681
e: sales@wannereng.com

Wanner International
Hampshire UK
t: +44 (0) 1252 816847
e: sales@wannerint.com

Wanner Pumps
Shanghai CHINA
t: +86-21-6876 3700
e: sales@wannerpumps.com

Wanner Pumps
Kowloon HONG KONG
t: +852 3428 6534
e: sales@wannerpumps.com